

# **ABSTRACT**

The present invention relates to screening of the expression profile of growth specific genes in swine and a functional cDNA chip using the same and provides nucleotide sequences of novel growth factors related to the growth in the muscle and fat tissues of swine. Also, the present invention provides a functional cDNA chip for screening and function analysis of growth specific gene according to breeds and tissues of swine prepared by integrating only the growth specific genes obtained as described above. Therefore, the functional cDNA chip for screening and function analysis of growth specific gene according to breeds and tissues of swine can be used in the swine improvement and breeding of a new breed.